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## ORANGE COUNTY AMATEUR RADIO CLUB

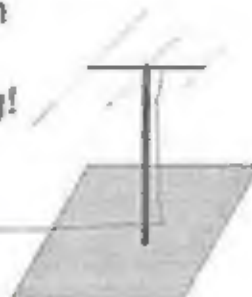
VOL. XXXIII NO. 3

P.O. BOX 3454, TUSTIN, CA 92681

MARCH, 1992

**Our Speaker:** Friday, March 20th  
7:30 PM  
is the next meeting!

**Fried Heyn,  
WA6WZO,  
ARRL SW  
Division  
Director on  
WARC-92 the  
World Administrative  
Radio Conference**



See "Speaker Notes" on page 2

**SQUARE DANCE - FRIDAY MARCH 27, 1992 - 7:30 pm**

**Host: Skipper, KC6WJJ**

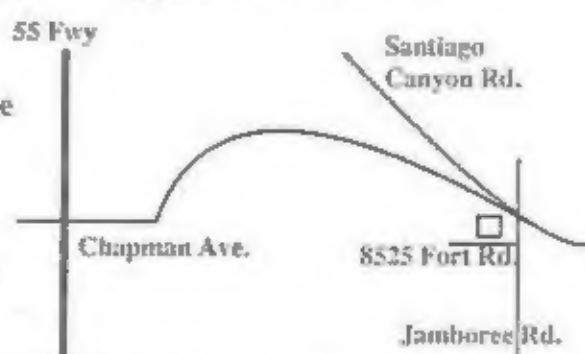
**at the City of Orange Police/Fire Substation**

**Caller: Bob, WB6IXN**

**Music: Lee (Bob's brother)**

None of us going knows how to square dance - but, so what!  
Sign-up, come alone or with someone **BUT DON'T MISS THE FUN!**  
Call Skipper at (714) 639-3443 and leave a message that you're  
coming - aw, go ahead, get a little exercise...

From the 55 freeway  
East on Chapman Ave.  
over the El Mendino grade  
Right on Jamboree Rd.  
South 1 block to  
Right on Fort Rd.  
Right into first driveway,  
park in back lot of  
Police/Fire Station



**FRIDAY, MARCH 27th, 7:30 pm  
SQUARE DANCE**

**FRIDAY, SATURDAY, SUNDAY  
APRIL 24, 25, 26 - CAMPOUT**  
Joshua Tree Nat'l Monument  
Black Rock Campground

**FIELD DAY - SAT - SUN JUNE 27, 28**

**Prez Sez**

**by Frank Smith, WA6VKZ**

Come one, come all to the **SQUARE DANCE**  
March 27th (map on front page.)

Thanks to ICOM for their generous donation proceeds of which will be used to offset much of our April campout. During the April campout we hope to test antennas for use at Field Day.

Congratulations to Carmine, KC6WTY, for his upgrade to Extra class.

Get your thoughts and ideas together for Field Day.

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**Only those members who have renewed by the end of the March Club Meeting  
can expect to receive their April RF - a current roster will be mailed in April.  
Dues STILL only \$12 / year!!!**

## Activities Update

by Bob Schnabel, KC6WWP (with help from Anita, KD6BWQ)

We have a lot of things happenings as far as activities. First our ICOM dual band hand-held radio raffle is doing really well. We are about half way to the big drawing. Good luck to all! The next special prize drawing, which we would like to get rolling by May, will be the AEA PK-232 with a certificate good for a copy of PacketGold software.

Don't forget the Club campout at Joshua Tree National Monument on April 24, 25 and 26. There has been a change in the campsite location. Instead of Indian Cove we will be at Black Rock Campgrounds (Indian Cove does not allow campers and trailers.) There will be testing with Nancy, N6XQR's VE team, a beginning code class taught by Bob Gregg, AB6CH and lots of encouragement from everybody else. Skipper, KC6WJJ, is giving a desert survival talk and Mel, KM6BT, is going to conduct a nature walk. There will be lots of food

and fun and relaxation for those still recovering from the Square Dance. Also, night time star-gazing with a great telescope. There are still positions available for volunteers. We need help with Saturday night's hamburger and hot dog BBQ and Sunday morning's sausage and pancake breakfast. Restroom facilities are 3 stall flush toilets and running water on each side. The wild flowers should be beautiful with all the rain we've had, too.

Sign up sheets for Field Day captains and workers and loggers and duffers and helpers and kibitzers will be available in April. Field Day is a nationwide ARRL contest to be held on Saturday June 27th and Sunday June 28th. Antenna setup on Friday afternoon, June 26th.

Check out the square dance on the front of the RF.

73, Bob, KC6WWP

## FRIED, WA6WZO, TO TALK ON WARC-92 AT MARCH MEETING

Have you ever wondered who is responsible for the ham bands we use today? Have you ever wondered where the requirement originated that amateurs know the morse code to operate on frequencies below 30 MHz? No, it is not the FCC. They have jurisdiction, to some extent, on which modes can be used where on the bands, but many of the FCC regulations we obey daily are determined by treaty. This treaty is reviewed periodically at a World Administrative Radio Council (WARC) meeting.

The most recent WARC meeting is occurring now. You may have heard some reports about WARC on the Westlink reports broadcast as part of our 2 meter net. The last major WARC occurred in 1979. That meeting was responsible for the loss of major frequency spectrum in the UHF region. It was also responsible for radio amateurs around the world receiving some new low frequency bands including the 30, 17 and 12 meter bands. What will be the outcome of the current WARC?

Fried Heyn, WA6WZO, the ARRL Southwestern Director will be our guest speaker at the March meeting and will bring us up to date on what's happening at WARC 1992 as it relates to Amateur Radio. Fried is a former member and past president of the OCARC. He and his wife Sandi first came to a club meeting in the early 1970s with a real enthusiasm for amateur radio. They both soon received their licenses and became very active in the hobby. For many years Fried was SCM of the Orange Section, and Sandi acted as his assistant. When the position of Southwestern Division Director became available, Fried moved naturally to fill it.

While Fried will mainly be discussing WARC, I'm sure he will be willing to field any general ARRL questions after his talk.

de AF6C

## 1992 CLUB BOARD of DIRECTORS

President .....	Frank Smith .....	WA6VKZ .....	838-3180
Vice President .....	Bob Eckweiler .....	AF6C .....	639-5074
Secretary .....	Jane Breller .....	KC6TAM ..	213/866-2077
Treasurer .....	Carmin Florello ..	KC6WTY .....	837-5133
Activities .....	Bob Schnabel .....	KC6WWP .....	776-8486
Membership .....	Bob Buss .....	KD6BWH .....	534-2995
Public Relations .....	Cindy Hughes .....	KC6OPI .....	971-3448
T.V.I. Chairman .....	Clark Turner .....	WA3JPG .....	856-2131
Member at Large .....	Ken Konechy .....	W6HHC .....	541-6249
Member at Large .....	Mike Abreu .....	K6KAA .....	832-8503

## CLUB APPOINTMENTS

Club Historian .....	Bob Evans .....	WB6IXN .....	543-9111
W6ZE Trustee .....	Bob Eckweiler .....	AF6C .....	639-5074
RF Editor .....	Nancy Bucher .....	N6XQR .....	537-8728
RF Printer .....	Jerry Dahlin .....	AA6BU .....	527-2779
Refreshments .....	Cindy Hughes .....	KC6OPI .....	971-3448

## DUES

Regular Member .....	\$12.00	Additional Family Members .....	6.00 each
Teenage Members (under 20) ..	6.00	Optional Club Badge .....	5.00

Dues for new members are prorated quarterly from January of each year. Family members must reside at the address of a Regular Member. One RF is sent per household.

MONDAYS - 8:00 PM

144.330 simplex

BEGINNER'S NET

CODE PRACTICE & TECH  
TALK



## On the Nets - February, 1992 - by Bob Evans, WB6IXN

**2/5 15m Phone net** - W6ZE/AF6C checks in NGO, RND, IXN, ESD, and XTJ. RND revamps grounding in the shack & gets gud rpts frn all OPs! NGO says that RND's distortion is solved. And Kei replaces a leaking oil seal in the Club generator. A small event rumbles thru Crystal Seismometer shortly after IXN checks in, and detective AF6C tracks down Chris Buckley for a future Club program. ESD, wid plugged-up allergy nose, loses 2 teeth to the dentist, but manages to hear Nepal & Pakistan on 20m! And XTJ eyeballs wid RND abt John's ground problem, garnering tnx frn John over the results!

**2/5 2m phone net** - W6ZE/IXN checks in BPX, NG7D, XTJ, VPP, RND, RE, ESD, WTY, QW, FHN, ZH & TAM, XQR, VDP, DNR, OPI, & WWP. Rain!..Rain everywhere...as BPX plans to check the rain gauge tomorrow! NG7D checks in on the HT via 440 remote located on Easter Hill in Orange. XTJ plans HF mobile as he places a rig in the auto for the upcoming trip to the Canadian Rockies. VPP experiences difficulties wid the ATV amplifier, so Bud is now I wait QRP on ATV! RND requests phone numbers for Heathkit as he searches for parts for the SB-104A! IXN refers him to N6ZNC on 145.46. And ESD comes up wid two numbers: 1-800-253-0570, and, 1-616-982-3571. RE informs OPs of OPs aboard the upcoming Shuttle launch in March. And Alex tells VPP that he used to walk to meetings 'many moons ago'! Newsline also mentions OPs aboard Shuttle. WTY sits back & enjoys the rain! And Carmine concentrates on Japanese DX thru the 80m Remote base, while thinking abt a 'water tank' location for the new 440 Mission Viejo Races Repeater! QW, wid too much snow at Big Bear, only thinks abt a new 35 ft. tower, as he garners a VA 15 Canadian commemorative QSL, & picks up some new packet gear at the Swap Meet. FHN, recovering frn recent shoulder surgery, has therapy 3 times a week, as he Elmers another OP wid bowling. TAM comes up on packet to deliver Board meeting minutes to XQR. And ZH gets QSLs frn Sri Lanka, Moldavia, and an FK8, working toward the DXCC. Congrats to WPP on passing General at XQR's VE test session last Sun. And XQR requests info, on 'QSL via the Bureau'! VDP comes bk wid the needed info: Contact ARRL for a sheet describing QSL Bureau procedures. In meantime, the Adr is: 6th District DX QSL Bureau, P.O. Box 1460, Sun Valley, CA. 91352. DNR will attempt to eyeball wid OPs at the E.O.C. in Anaheim at next Club meeting! And OPI/M tells OPs that Patrick still awaits the Tech ticket as he attacks the code for future upgrade!

**2/6 15m CW net** - W6ZE/RND checks in IXN, XQR & NT, while VKZ copies on the side at XQR's shack. All OPs have gud sigs tonite as John asks Nancy how 'RF' is coming along. XQR has trouble downloading TAM's Board meeting minutes frn the LA BBS! NT gives OPs their sig rpts, & Ray is glad he doesn't hve to use his 'frog' voice as he battles the flu on a soggy Goat Hill! IXN, facing the intolerable situation of only one 'Bob' on the CW net, implores ESD & WWP to jump on board! XQR works the paddle & not the strait key tonight, but, NT has a lil trouble wid his strait key!

**2/12 15m phone net** - W6ZE/AF6C checks in NGO, IXN, RND, XTJ, XQR, & VKZ. AF6C asks all OPs abt 'rain' adventures at their QTHs! NGO ventures to HHC's QTH where they tear down

a patio roof. Then Kei returns home to work some DX on 15m. Rain drives the crowd frn the freeways, & AF6C & XTJ find freeway driving enjoyable! RND remains glued to the boob-tube, watching reports of luckless flood victims, and damage, frn falling rains! VKZ, busy wid freeway problems & TV media, jumps in to say bello & goodbye. IXN gives OPs more gud news...3 storms approaching! XQR asks if anyone had ant. damage frn morning winds, then hastens off to the kitchen!

**2/12 2m phone net** - W6ZE/IXN has largest check-in ever!..NG7D, BPX, ZH & TAM, JSV, RE, XTJ, RND, HHC, FHN, VDP, XQR, FLP, OPI, WTY, QW, KAA, BWH, FHU, BFF, TWF, & VKZ. BPX continues to add up inches of rain in GG, and listens to tales of a neighbor's leaking roof! NG7D hasn't seen so much water since 1983!..John can't go shopping and he missed a contact on 15m to Antarctica. ZH & TAM, both ill-feeling, take the day off. They will travel to IBR & IBP's QTH to work the horse event at San Jacinto. JSV's backyard fountain floweth over, but no leaking roofs! Bad computer sensors, a bum catalytic converter, no brakes & 500 bucks later, all JSV's auto problems are solved! RE has collected more ARRL bulletins than he has puddles in the backyard! Alex airs Newsline, & receives a call frn Tustin PD abt RVS' trailer break-in! The 1968 floods were worst for XTJ & IXN! Neither hve suffered any damage frn present storms. RND avidly watches flood damage rpts & tnx RE for a tape, as he listens to rain pounding on the new roof. HHC has last checkin frn the present QTH..He's moving! The ant. comes dwn Sat. FHN announces that OPs can live their gear checked for proper operation Sat. frn 9am - 11am, at the Anaheim EOC! VDP's 2 yr. old roof is doing fine, however, a block wall that suffered wind damage needs repaired! VDP makes note of XTJ's Logic Keyer written up in World Radio, & tucks away an NH7 during a 6m opening! And Larry announces the 'IBM Computer Virus'! If you've got it, your computer will 'get sick & die' on Mar. 6! XQR is 'high & dry' in her shack as Nancy listens to OPI frn the Red Cross Communications room. ONZ went home to take care of 'QTH' matters...Patrick's school may soon form a ham club! WTY gets bk at the rig in time to tell OPs abt Mission Viejo's 440mc soon to be installed on a municipal watertank, & Carmine still continues to garner rare DX through the TWF Remote system. KAA, in frn 'repeater gossiping', tells OPs the major topic on the repeater is...RAIN!! BWH just logged 2.45 in. of rain frn this last storm at the QTH! FHU, Dewitt, has no water damage, & he will get a card to Carmine! TWF announces OP radio checks at Anaheim EOC on Sat. morning, plus the lunch at Tony Ronias' in Fullerton. For info, on the above, or David's Remote System, call David at 535-5528. VKZ just got in frn the rain-swollen freeways and Cal-trans problems..Frank kicks back & happily joins the conversation!

**2/13 15m CW net** - W6ZE/RND checks in IXN, XQR, & NT. IXN grounds the antennas & pulls station plugs to avoid static discharges during this morning's lightning! Little Miss Mufet lures TWF to her tuffet to install a 1.2 gig module in her 741! So all we get frn Nancy is 73 & 88, as she flies away to join David..Hm! NT cleaned the rain gutters...His ants. will be above water level now! IXN beat him to it by abt 2 mos.! Ray said we all sounded like we were in a rain barrel! IXN hears all OPs FB, as does RND!

*Continued on Page 4*

## On the Nets - February, 1992 (Continued)

**2/19 15m phone net** - W6ZE/AF6C checks in IXN, RND, XTJ, YZG, and ESD. IXN reports 2 small earthquakes near Ridgecrest this A.M. RND backs off on the mike gains & removes his audio distortion, as John continues to work on the shack's ground system. Commercials & the Olympics don't quite mix, says AF6C. And IXN hears XTJ after Jim "tunes up" a bit! YZG still has some paralysis from a light stroke, & Lu entertains himself "playing computer"! ESD tunes up for CW net last week, & not hearing any OPs, discovers it's Friday!

**2/19 2m phone net** - W6ZE/IXN checks in ZH & TAM, BPX, XTJ, RE, RND, VDP, AF6C, ONZ, ESD, FZE, XQR, OPI, FHN, BWH, WTY, YFY, DBY, and FHU. We certainly do appreciate RE's dedication to providing 'Newsline' for OPs! Tux, Alex! ZH & TAM journey off to San Jacinto last Sunday for the Carriage event. You guessed it!..Emergency traffic & medical assistance...this time an auto accident! IBR was NC for the Carriage event. BPX logs 14" of rain in the gauge for the season, & wants OPs to tell COJ to 'hold the garlic' until the Club breakfast! XTJ tells IXN that there was CW sigs & QRM on his 15m xmissions, & Jim tells OPs abt a recent & vy interesting T-Hunt! RE 'wrings the water out of the grass' and 'whacks' it, including the weeds! Alex also tells OPs that amateur interests are well represented at the WARC conference! RND asks IXN to assume NC for tomorrow's 15m CW net. W6NT asks VDP abt Quarter Century Wireless Assoc. IXN asks AF6C abt QCWA, but gets the wrong 'Bob'! AF6C warns OPs of a new computer virus that will 'wipe their hard disks clean' on Mar. 6! IXN finds the right 'Bob', ESD, who enlightens VDP abt Chapt. 7 of the QCWA in Long Beach. VDP also says that Club OP, Carlos Fuentes, hasn't been receiving 'RF'! IXN moves ESD back to Costa Mesa from Garden Grove. Sorry abt that, Bob! XQR says Indian Cove NO..Black Rock Canyon YES, for the upcoming Club campout!..More at meeting! OPI checks in from Red Cross Communications w/ the Class on the side...great PR, Cindy! BWH is also at the Red Cross, & Bob (SPN) hadn't heard abt the 2 small EQs near Ridgecrest this A.M. WTY works both ends of Canada, w/ a JA in the middle, on 80m; informs VDP of Carlos Fuentes' club status; & is glad to have his ailing computer well agn! DBY, Doug, is wrking on the 5 WPM CW! And FHU is working on 10 WPM. 15m CW net eagerly awaits Doug & DeWitts' check-ins! FHN & YFY 'fly in & fly out'. IXN welcomes FZE, Patrick, in Junior High, on the net! Congrats on the new ticket, Patrick! ONZ says Hi to all & stands by on Patrick's QSO.

**2/20 15m CW net** - W6ZE/IXN checks in ESD, NT, XQR, & KD6BCH. XQR experiences QRN at the QTH & can't hear ESD or NT. NT will call ESD landline r/e after net, & IXN tells OPs abt 2 or 3 tiny temblors that went thru our area beginning at 5:01 A.M. We welcome Byon, BCH, on board, and we all hope to hve Byon w/ us as a regular on CW! XQR proposes we change the net freq. to 10m. It's OK w/ ESD & IXN. IXN landlines XQR after net, w/ VKZ on the side on another landline! By the way, Frank, come on freq. and talk w/ us CW sometime.

**2/26 15m phone net** - W6ZE/AF6C checks in ESD, IXN, RND, N4UIF, & VDP. AF6C relays some info. to IXN. RND tries the rig speech processor w/ great success. UIF is heard by all from

Charleston, Kentucky, & ESD gives RND gud rpt on the speech processor. VDP looks for vacationing XTJ in Colorado, and jumps over to WTY on 2m. AF6C also checks in OPs from Fla. Louisiana after IXN leaves the net for 2m.

**2/26 2m phone net** - W6ZE/IXN checks in WWP, VKZ, NG7D, WTY, ZH & TAM, RE, XQR, VDP, EDK, FHU, RND, KAA, ZUP, HHC, ESD, QW, AF6C, & OPI. WWP, tnx the following donors to Club raffle: WTY for the SWR meter, BWQ for the dual 24 hr. clock, VDP for the Repeater Directory. And Bob tells OPs to reserve their campsites for the April campout soon! Contact BWH or WWP. VKZ's vertical bows to the SA winds! Horizontally polarized, Frank turns on the amp. so ZH & TAM can hear him in Bellflower! NG7D stays put at last Club meeting w/ all the 'bods' crowded round him! However, John 'wheelchairs' back to the Communications room to admire all the great gear at the Anaheim EOC. WTY ventures out to look at the stars last eve. Being vy quiet, Carmine thinks of 'earthquake WX'! (Hm!..Whole lot of shakin' goin on up Lake Crowley way, Carmine!) ZH & TAM give VKZ an S9 w/ the amp. on, as Chris & Jane rack up 97 countries toward the DXCC! AF6C, forced to work late, misses the excellent EOC presentation on EQ preparedness, & RE & IXN wish the SA winds wud blow the oxalis out of their yards! Alex alerts OPs of the Cambodian refugee ham rescue story listed in Mar. issue of Reader's Digest, before airing Newsline. Congrats to all OPs who upgraded at XQR's VE session! Nancy certainly deserves 'honor, praise, & glory' for her efforts in the ham community. The 'cold bug' catches up w/ VDP as Larry searches for vacationing XTJ somewhere in Colorado. Undaunted, Larry picks up 2 more grid squares on 6m, & asks ESD when CA first received the District 6 call! EDK attends his 1st Club meeting, enjoys the presentation, & walks off w/ Carmine's SWR meter at the raffle! FHU, after 34 yrs as a fireman, really enjoyed the presentation at the Anaheim EOC! DeWitt also installs a new 2m ant. on the QTH, & a Larson ant. on the motorcycle for contact w/ FHN & FLP. RND informs the CW OPs that we will meet on 21.175 on Thurs. as usual, then QSY to 28.150 for test purposes. KAA motors to San Luis Obispo to hear the harmonic's choir in concert, and ZUP works us on the handheld as he tells OPs the 741 rig has been installed. HHC, using a 1/2 wave magmount upstairs in the new QTH, exposes his new toy: a 1.2GHz module in the 741! ESD, busy w/ the dentist, manages a 20m SSB contact to an HC8K in the Galapagos Is. QW, in bed w/ a cold yesterday, manages to pay payroll taxes today, & survives a media interview abt the invasion of street people, cardboard shacks & all, in his industrial area! FZE is already in bed as OPI prepares for the SAREX program at Patrick's school, for the Mar. 23rd launch of Shuttle.

**2/27 15m CW net** - W6ZE/RND checks in XQR, IXN, NT, and ESD. After sig rpts all around, W6ZE QSYs to 28.150. All OPs hear each other well! NT leaves us when XYL rings the dinner bell. ESD gets a new toy, a TS 850! And RND asks Bob if he can QSY to 28.150 on the 440. XQR also hears all OPs well, as does IXN. We will all meet on 21.175 next Thur. & then QSY to a 40m freq. to be announced by RND on the 2m Wed. eve. net.



## Minutes of OCARC General Meeting

February 21, 1992

The meeting was called to order at 7:30 PM by Frank Smith, WA6VKZ. Board member absent was Bob Eckweiler, AF6C.

The speaker was Bob Berg, KB6ZDB, Disaster Coordinator for the City of Anaheim, who talked about the problems involved during the 1989 Loma Prieta earthquake and presented a very interesting slide show that highlighted the damage done during this earthquake. He also showed what is needed in the emergency pack that we should be carrying in our cars at all times.

Treasurer's Report: There is \$873.00 in checking and \$1,154.68 in savings. Cash on hand is \$145.00. The Club has received a \$40.00 donation from the Gordon West Radio School.

Minutes were approved as published in the RF.

### OLD BUSINESS

Amateur Radio Awareness Day - Skipper is still coordinating the project with the City of Orange.

Raffle - A dual band handheld from ICOM is the prize. OCARC is sending a card to ICOM that is being signed by all club members attending the February meeting.

Campout - Maps and campsites are available. The first 30 people to sign up will have the first night paid for by OCARC. The meals will be \$5.00 per person. See Bob Schnabel, KC6WWP, for more information.

### NEW BUSINESS

Activities - The Club is having a square dance on 3/27/92 at the City of Orange Police/Fire Substation on Fort St. It will start at 7:30 PM and the Caller will be Bob Evans, WB6IXN. Come and join us!!

Cindy, KC6OPI, stated that the Club needs a new coffee pot. She will get cost by March breakfast.

Meeting was adjourned at 10:05 PM

Respectfully submitted, Jane Breller, KC6TAM, Secretary

## AMATEUR RADIO INSTALLATIONS

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### • BASE

### • MOBILE

Professional Custom Installations

Prompt, Courteous Service

Jerry (KK6YO) & Linda (KC6VHY) Davis

1757 D West Carson St. #365

Torrance, CA 90501

(310) 784-0979

## Minutes of OCARC Board Meeting

March 7, 1992

Called to order at 8:45 am by Frank Smith, WA6VKZ. Board member absent was Bob Schnabel, KC6WWP.

### NEW BUSINESS

Cindy, KC6OPI - The Red Cross is having a raffle to benefit their Communications Center. The prize is a fantasy weekend for two, and the cost is \$5.00 per ticket.

Dave Hollander, WA6COJ - He has found a place that will print up decals and cloth patches that will bear the OCARC logo. There is a minimum order of 1000 items and will cost approximately \$450.00. The board requested that Dave investigate this further and report information at the next breakfast.

### OLD BUSINESS

Campout - It was moved by Jane, KC6TAM, that the club spend \$300.00 for the campsite deposit and \$200.00 for food. Motion was seconded by Cindy, KC6OPI. Motion was approved by the Board.

Square Dance - There will be a map on the front page of the RF. Everyone is encouraged to come. John Roberts, WA6LAB, advised the Board that the Kenwood 520 that belongs to OCARC is not working. Board advised John to give the rig to Larry, K6YDP, for him to look at the equipment and see if it can be repaired. Larry will let the Board know if it can be repaired and what the cost will be.

Nancy, N6XQR, advised the Board that she still has not received the audit statement to publish in the RF. The audit committee will meet with the treasurer before the next meeting and review the books. The audit statement will be published in the April RF.

### GOOD OF THE CLUB

It was brought up that Bob Tegel, KD6XO, is in Hogue Memorial Hospital. He suffered a heart attack on 3/2/92. Bob, AF6C, is arranging to send a plant and card to Bob. Bob is in the Intensive Care Unit and there is no information as to his condition at this time.

Treasurer's Report - There is currently \$1,154.86 in the savings account, approximately \$800.00 in the checking account and cash on hand is \$400.00.

Membership - there are currently 84 paid members in the club. Bob, KD6BWH, advised the Board that more badges are needed. It will cost about \$150.00 for 100 badges. Motion was made by KC6TAM to allot the \$150.00 for badges, and was seconded by Ken, W6HHC. Motion was approved by the Board.

Cindy, KC6OPI, is the new PUBLIC INFORMATION OFFICER for the Orange Section of the Southwest Division of ARRL.

Meeting was adjourned at 9:15 am

Respectfully submitted, Jane Breller, KC6TAM, Secretary

[Ed. Note: Cards may be sent to:

Bob Tegel, KD6XO at 14561 Benchley Circle, Westminster, CA 92683]

## The Investment Aspects of Amateur Radio

by Alan Churchill, AA7CV

Many of us who love ham radio have experienced difficulty explaining our "investment strategies" to our non ham friends and family. For those of you who need some help with this complex and multifaceted topic, here are a few tips I have picked up from other hams over the years.

Ham radio equipment, meetings, labor and parts can be broken into several definitions so as to make the analysis easier. Since most of us have a limited amount of investment capital available and since most of us want to maximize the return on our invested capital, here are some definitions to use in your analysis.

**INITIAL INVESTMENT (or EARNEST MONEY):** Most investments have some amount of money that must be put down to get started. Its purpose is to demonstrate your true level of interest. In ham radio, this amount is \$5.95 which is for the Novice test manual. This is the total amount of initial investment required and no further initial investment will ever be required.

**FIXED INVESTMENT:** Unlike other investments, only 20% of the total amount of money spent on ham radio is really "invested capital". How can this be? This is because 80% on the money spent on ham radio belongs in the Educational category.

**EDUCATIONAL ENHANCEMENT:** 80% of the money spent on ham radio gear, computers, manuals, classes, antennas, feedline and all other radio products belongs in this category. This is because as we go through life, we are constantly learning, learning, learning. Many people spend tens of thousands of dollars on a college education and leave school with just a few books that will never be opened again. Ham radio gives you more in that the education comes with lots of things to play with afterward.

**DEPRECIATION:** All ham gear has a very long life because we can all remember "way back when". This means that a person who gets started at age 10 will have a 70 year depreciation (assuming he lives to age 80). To calculate your depreciation, take the total amount of your investment and divide it by 70.

**INVESTMENT RECAPTURE:** This is the amount of money you collect from selling ham gear at swap meets or to friends. 100% of this money should be applied to the Fixed Investment because the educational component is obviously fully used up.

Now lets work out an example so we can accurately calculate the "true cost" of being involved in ham radio. This example will assume an initial investment of zero because the manual was borrowed. The ham spend a total of \$10,000 to build the station. He also sold \$4,000 of ham gear over the years. The net cost then is \$10,000 less the \$4,000 of Recaptured Investment leaving a net of \$6,000. Of this amount, \$4,800 is Educational so it can't be considered as a "cost".

So, our actual investment in ham radio is really \$6,000 times 20% = \$1,200. We divide this amount by 70 years of active use and this gives us \$17.14 per year of Fixed Investment. This gives us a monthly total of under \$1.50.

Now you know why we don't smoke at our club meetings. We all gave up one pack a month to be able to afford our hobby.

[Ed Note: This article was passed along to us by Phil Andersen, KK6QE from the February, 1992 issue of Oregon Tualatin Valley ARC Newsletter.]

### Gordon West Radio School, Inc.

presents

Weekend No-Code Technician

Gordon West, WB6NOA, Instructor

April 10, 11, 12 Los Angeles, Day's Inn

May 1, 2, 3 San Diego

May 8, 9, 10 Orange County, Airpointer

General Code Class

Dan Fort, AA6LM, Instructor

April 11, 12 Los Angeles, Day's Inn

May 9, 10 Orange County, ICOM

5 WPM Code Class

Dan Fort, AA6LM, Instructor

April 25, 26 Orange County, ICOM

Gordon West Radio School, Inc.

2414 Collego Dr. Costa Mesa, CA

92626

(714) 549-5000 HOT LINE 10-4

## Mobile Installations

by Linda Davis, KC6VHY

Installing your VHF/UHF radio in your car can be quite an experience. It sounds easy enough, but there really is more to it than it looks. Sure you can throw it under your dash on a mobile mounting bracket with a couple of screws and use your cigarette adaptor for power and a mag mount antenna..... BUT, the question is: will you be able to transmit with a clear signal, i.e., without an alternator whine or some type of an engine noise? Well, read on and see what is really involved in installing your equipment properly and neatly under the dash and hood of our vehicle. s

This month, we will discuss how to install your dual-band or tri-band mobile radio, antenna, an antenna mount, and a duplexer or triplexer. An external speaker is optional.

Here are the most popular types of antenna mounts:

- **MAG MOUNT - temporary:** You can remove your mag mount antenna from the car to another and run the coax into the car thru the top of the car door.
- **TRUNK / HATCH LIP MOUNT - permanent:** No holes are drilled. This mount is usually tightened down with an allen wrench. (Can be removed when you sell your vehicle.)
- **ROOF MOUNT - permanent:** Yes, a hole MUST be drilled in your vehicle either on the roof or on the trunk. BUT your signal is transmitted much further since the metal of the car is a great ground plane.

Now that you know which antenna mount you will need to accomplish your mission, let's go ahead and go through the check list.

1. Location to mount your radio. (Make sure radio will physically fit in the space.)
2. Accessibility for running power cord to the battery.

Continued on Page 7



## Mobile Installations, Continued

Continued from Page 6

- Location for antenna mount. (Make sure there's enough cable to run from antenna to radio.)
- Make sure antenna will clear for height clearance so antenna will not get damaged.
- Connect your antenna cable to your duplexer or triplexer, and that to the radio. Again, hide the connections from view.
- Make sure all of your connections are correct and tightened to minimize any problems.
- Check SWR to make sure that you are operating at full power.
- Turn power on, get on frequency and transmit. HAVE FUN!

After the check list, get ready for the installation. (The one that you will be proud of when completed and have made that great contact.)

- Mount bracket and radio.
- Run power cord behind dash (to hide from view) and solder a couple of ring terminals to the power cord for the battery terminals. Dress it up with wire loom tubes and secure with wire ties.
- Mount antenna with great care! Be sure not to pinch or bend coax cable at a sharp angle because this may cause a change in impedance which also will cause a high SWR.

Mobile installations can be very simple to very complicated (custom installations) depending on the vehicle. Do not hurry through the installation. Take your time and you will amaze yourself! Take it from a YL!!!

73, Linda, KC6VHY

P.S. Watch for next month's issue for an article on HF mobile installation.

**FOR SALE**  
**MFJ 962C**  
**1.5 Kilowatt Tuner**

**Good Condition**  
**\$100**  
**Call Carmine, KC6WTY**  
**(714) 837-5133**

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**10 - 40 meters**  
**Like new**  
**used one month**  
**\$300**  
**Call Jerry, KK6YO**  
**(310) 784-0979**

### UPGRADE AND NEW LICENSE CLASS/TEST SCHEDULE

DATES	NO-CODE TECHNICIAN	ADV.	5 WPM CODE	13 WPM CODE	20 WPM CODE	TEACHER	WALK-IN TESTING
MARCH 27,28,29	F.V.					AB6CH	29TH, 5:00 PM
APRIL 4,5			F.V.			AB6CH	5TH, 4:00 PM
10,11,12	F.V.					AB6CH	12TH, 5:00 PM
25,26						CAMPOUT	OCARC ONLY
MAY 9,10				IRVINE		AA6LM	TBA
15,16,17	FV					AB6CH	17TH, 5:00 PM

Pre-register for all classes. For F.V. (Fountain Valley) call AB6CH BOB GREGG at (714) 375-0387. For Irvine locations (classes taught by WB6NOA, GORDON WEST and AA6LM, DAN FORT), call GORDON WEST RADIO SCHOOL (714) 549-5000. Bring ORIGINAL and COPY OF LICENSE and ORIGINAL and COPY of ANY CSCE'S, ID and \$5.40 (NOTE PRICE INCREASE FOR 1992.) ALL TESTS ARE WSYI ACCREDITED, LEAD VE: NANCY BUCHER N6XQR (714) 537-8728. BE SURE TO PRE-REGISTER WITH SITE SPONSOR IF YOU WISH TO WALK-IN TEST. Walk-ins will be tested after class testing. Multiple versions of all elements are available.

## CLUB FUNCTIONS

### MONTHLY MEETING:

March 20th - 7:30 PM

April 17th - 7:30 PM

May 15th - 7:30 PM

### Anaheim Emergency Operations Center

909 E. Vermont - Anaheim, CA west of 2nd set of railroad tracks, big antenna  
Vermont runs east and west between Harbor and State College  
Vermont is North of Ball and South of Lincoln

### CLUB BREAKFAST:

April 4th

May 2nd

1st Saturday of each month, 8:00AM at DENNY'S Restaurant  
2314 E. Seventeenth Street Santa Ana, CA (714) 543-0872

(Second bldg. west of the 55 Freeway)

## CLUB NETS

BAND	MODE	DAY	LOCAL TIME	FREQ MHz	SPLIT	PL	OPERATOR
2 Meters	FM	Wed	2030 hrs.	146.550	smplx	na	WB6IXN
15 Meters	SSB	Wed	2000 hrs.	21.375*	smplx	na	AF6C
15 Meters	CW	Thu	2000 hrs.	21.175*	smplx	na	WA6RND

(Listen for W6ZE, net control) \*Plus or minus QRM

## ARES DISTRICT NETS

2 Meters	FM	Mon	1900 hrs.	145.220	-600	1A	N6HQI 1
2 Meters	FM	Mon	~1915 hrs.	145.340	-600	4Z	K6KAA 2
2 Meters	FM	Mon	1930 hrs.	noted	smplx	na	noted 3

1 - ARES Info net.

2 - ARES District 3 net starts after Info net is completed (Usually about 1915 hrs).

3 - City Nets: Orange - 146.535 WB6FCP; Tustin - 146.505 KK6QE; Santa Ana - 147.585 W6HHC

**ORANGE COUNTY AMATEUR RADIO CLUB, INC.**

**P.O. Box 3454**

**TUSTIN, CA 92681**



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